

D 130122

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Name.....

Reg. No.....

**FIFTH SEMESTER (CBCSS—UG) DEGREE EXAMINATION
NOVEMBER 2025**

Botany

BOT 5B 08—TISSUE CULTURE, HORTICULTURE, ECONOMIC BOTANY AND

ETHNO BOTANY

(2019 Syllabus)

Time : Two Hours

Maximum : 60 Marks

Section A*Answer all questions.**Each question carries 2 marks.**Ceiling : 20 Marks.*

1. What is Micropropagation ?
2. What are the working principle of laminar air flow chamber ?
3. Define cellular totipotency.
4. What is Cybridization ?
5. Define somatic embryogenesis.
6. Note the significance of horticulture.
7. What are the components present in the soil.
8. Write a notes on drip irrigation.
9. What is Repotting ?
10. What is outdoor gardening ?
11. Write the binomial, family and morphology of useful part of sugar cane.
12. Find the significance of horticulture.

Turn over

Section B

*Answer all questions.
Each question carries 5 marks.
Ceiling : 30 Marks.*

13. Illustrate the techniques used for plant tissue culture.
14. Explain in vitro and in vivo rooting hardening.
15. Write the composition and preparation of Murashige and Skoog medium.
16. Describe the cultivation and post-harvest management of vegetables and ornamental plants.
17. What are called fertilizers ? Explain chemical, organic and biofertilizer with examples.
18. Write binomial, family and morphology of useful part, products and uses of coffee, tea.
19. Brief account on ethnobotanical significance of *Trichopus zeylanicus*.

Section C

*Answer any one question.
The question carries 10 marks.*

20. Detailed about the methods and applications of somatic embryogenesis.
21. Elaborate the various types of vegetative propagation.

(1 × 10 = 10 marks)

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NOVEMBER 2024**

Botany

BOT 5B 08—TISSUE CULTURE, HORTICULTURE, ECONOMIC BOTANY, ETHNO
BOTANY

(2019 Admission onwards)

Time : Two Hours

Maximum : 60 Marks

Section A

*Answer all questions.
Each question carries 2 marks.
Ceiling : 20 Marks.*

1. Write the ethnobotanical significance of :
 - a) *Aegle marmelose* ; and
 - b) *Curcuma longa*.
2. Write the binomial, family, morphology of the useful part and their uses of two timbers.
3. Briefly explain the methods of seed treatments.
4. What is drip irrigation and how it works ?
5. What is Compost ? Explain the different types.
6. What are the 4 main types of soil ?
7. What are the branches of Horticulture ?
8. Write the working principle of autoclave.
9. Write two advantages and two disadvantages of micropropagation
10. Why is shoot tip culture important ?
11. What somatic cell hybridization ?
12. What are the basic steps in anther culture ?

Turn over

Section B

*Answer all questions.
Each question carries 5 marks.
Ceiling : 30 Marks.*

13. Describe about major tribes of South India.
14. Write the principle of bonsai. How to begin bonsai gardening ?
15. What is the importance of manure compost ?
16. Describe the terms de differentiation and re defferentiation.
17. Briefly explain the role of somaclonal variation in tissue culture ?
18. Write about cell immobilization.
19. Describe the significance of tissue culture medium ?

Section C

*Answer any one question.
The question carries 10 marks.*

20. Write an essay on cultivation and post-harvest management of vegetables and ornamental plants.
21. Explain different phases of micropropagation.

(1 × 10 = 10 marks)